Steven J Collins

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4906995/publications.pdf

Version: 2024-02-01

102 papers	4,506 citations	126907 33 h-index	110387 64 g-index
107 all docs	107 docs citations	107 times ranked	4971 citing authors

#	Article	IF	Citations
1	Genetic prion disease: the EUROCJD experience. Human Genetics, 2005, 118, 166-174.	3.8	391
2	CSF biomarker variability in the Alzheimer's Association quality control program. Alzheimer's and Dementia, 2013, 9, 251-261.	0.8	344
3	Quantifying prion disease penetrance using large population control cohorts. Science Translational Medicine, 2016, 8, 322ra9.	12.4	289
4	Copper and Zinc Binding Modulates the Aggregation and Neurotoxic Properties of the Prion Peptide PrP106â˜126. Biochemistry, 2001, 40, 8073-8084.	2.5	264
5	Transmissible spongiform encephalopathies. Lancet, The, 2004, 363, 51-61.	13.7	250
6	Prion Protein-Deficient Neurons Reveal Lower Glutathione Reductase Activity and Increased Susceptibility to Hydrogen Peroxide Toxicity. American Journal of Pathology, 1999, 155, 1723-1730.	3.8	182
7	Stability and Reproducibility Underscore Utility of RT-QuIC for Diagnosis of Creutzfeldt-Jakob Disease. Molecular Neurobiology, 2016, 53, 1896-1904.	4.0	161
8	Quinacrine does not prolong survival in a murine Creutzfeldt-Jakob disease model. Annals of Neurology, 2002, 52, 503-506.	5.3	160
9	The Hydrophobic Core Sequence Modulates the Neurotoxic and Secondary Structure Properties of the Prion Peptide 106-126. Journal of Neurochemistry, 2002, 73, 1557-1565.	3.9	152
10	Biomarkers and diagnostic guidelines for sporadic Creutzfeldt-Jakob disease. Lancet Neurology, The, 2021, 20, 235-246.	10.2	151
11	Cerebrospinal fluid realâ€time quakingâ€induced conversion is a robust and reliable test for sporadic creutzfeldtâ€“jakob disease: An international study. Annals of Neurology, 2016, 80, 160-165.	5.3	107
12	The real-time quaking-induced conversion assay for detection of human prion disease and study of other protein misfolding diseases. Nature Protocols, 2016, 11, 2233-2242.	12.0	107
13	Validation of 14-3-3 Protein as a Marker in Sporadic Creutzfeldt-Jakob Disease Diagnostic. Molecular Neurobiology, 2016, 53, 2189-2199.	4.0	80
14	Iatrogenic Creutzfeldt-Jakob disease with Amyloid-Î² pathology: an international study. Acta Neuropathologica Communications, 2018, 6, 5.	5.2	79
15	Age at onset in genetic prion disease and the design of preventive clinical trials. Neurology, 2019, 93, e125-e134.	1.1	73
16	ATN profiles among cognitively normal individuals and longitudinal cognitive outcomes. Neurology, 2019, 92, e1567-e1579.	1.1	73
17	Supranutritional Sodium Selenate Supplementation Delivers Selenium to the Central Nervous System: Results from a Randomized Controlled Pilot Trial in Alzheimer's Disease. Neurotherapeutics, 2019, 16, 192-202.	4.4	69
18	Correlative studies support lipid peroxidation is linked to PrPres propagation as an early primary pathogenic event in prion disease. Brain Research Bulletin, 2006, 68, 346-354.	3.0	66

#	Article	IF	Citations
19	Mouse-adapted sporadic human Creutzfeldtâ€“Jakob disease prions propagate in cell culture. International Journal of Biochemistry and Cell Biology, 2008, 40, 2793-2801.	2.8	59
20	Fifteen Years of the Australian Imaging, Biomarkers and Lifestyle (AIBL) Study: Progress and Observations from 2,359 Older Adults Spanning the Spectrum from Cognitive Normality to Alzheimerâ€™s Disease. Journal of Alzheimer's Disease Reports, 2021, 5, 443-468.	2.2	59
21	A manganese-superoxide dismutase/catalase mimetic extends survival in a mouse model of human prion disease. Free Radical Biology and Medicine, 2008, 45, 184-192.	2.9	54
22	A Phase IIa Randomized Control Trial ofÂVEL015 (Sodium Selenate) inÂMild-Moderate Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 223-232.	2.6	53
23	Intensity of human prion disease surveillance predicts observed disease incidence. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 1372-1377.	1.9	49
24	Involvement of the 5-lipoxygenase pathway in the neurotoxicity of the prion peptide PrP106-126. Journal of Neuroscience Research, 2001, 65, 565-572.	2.9	47
25	Alzheimerâ€™s Disease Normative Cerebrospinal Fluid Biomarkers Validated inÂPET Amyloid-Î² Characterized Subjects from the Australian Imaging, Biomarkers andÂLifestyle (AIBL) study. Journal of Alzheimer's Disease, 2015, 48, 175-187.	2.6	47
26	Increased Proportions of C1 Truncated Prion Protein Protect Against Cellular M1000 Prion Infection. Journal of Neuropathology and Experimental Neurology, 2009, 68, 1125-1135.	1.7	46
27	The effects of prion protein expression on metal metabolism. Molecular and Cellular Neurosciences, 2009, 41, 135-147.	2.2	45
28	Identification of novel risk loci and causal insights for sporadic Creutzfeldt-Jakob disease: a genome-wide association study. Lancet Neurology, The, 2020, 19, 840-848.	10.2	42
29	Ascertainment Bias Causes False Signal of Anticipation in Genetic Prion Disease. American Journal of Human Genetics, 2014, 95, 371-382.	6.2	40
30	A pilot study of the utility of cerebrospinal fluid neurofilament light chain in differentiating neurodegenerative from psychiatric disorders: A â€˜C-reactive proteinâ€™ for psychiatrists and neurologists?. Australian and New Zealand Journal of Psychiatry, 2020, 54, 57-67.	2.3	40
31	Dominant roles of the polybasic proline motif and copper in the PrP23-89-mediated stress protection response. Journal of Cell Science, 2009, 122, 1518-1528.	2.0	39
32	Prion protein â€œgamma-cleavageâ€: characterizing a novel endoproteolytic processing event. Cellular and Molecular Life Sciences, 2016, 73, 667-683.	5.4	39
33	Elecsys CSF biomarker immunoassays demonstrate concordance with amyloid-PET imaging. Alzheimer's Research and Therapy, 2020, 12, 36.	6.2	39
34	Manganese chelation therapy extends survival in a mouse model of M1000 prion disease. Journal of Neurochemistry, 2010, 114, 440-451.	3.9	37
35	PrPC-related signal transduction is influenced by copper, membrane integrity and the alpha cleavage site. Cell Research, 2009, 19, 1062-1078.	12.0	36
36	Familial Prion Disease Mutation Alters the Secondary Structure of Recombinant Mouse Prion Protein:Â Implications for the Mechanism of Prion Formationâ€. Biochemistry, 1999, 38, 3280-3284.	2.5	35

#	Article	IF	Citations
37	Anionic Phospholipid Interactions of the Prion Protein N Terminus Are Minimally Perturbing and Not Driven Solely by the Octapeptide Repeat Domain. Journal of Biological Chemistry, 2010, 285, 32282-32292.	3.4	31
38	Acute exposure to prion infection induces transient oxidative stress progressing to be cumulatively deleterious with chronic propagation in vitro. Free Radical Biology and Medicine, 2011, 51, 594-608.	2.9	31
39	A Genome Wide Association Study Links Glutamate Receptor Pathway to Sporadic Creutzfeldt-Jakob Disease Risk. PLoS ONE, 2015, 10, e0123654.	2.5	28
40	Characterising the uncommon corticobasal syndrome presentation of sporadic Creutzfeldt-Jakob disease. Parkinsonism and Related Disorders, 2013, 19, 81-85.	2.2	27
41	Neutron Reflectometry Studies Define Prion Protein N-terminal Peptide Membrane Binding. Biophysical Journal, 2014, 107, 2313-2324.	0.5	27
42	Cerebrospinal fluid neurofilament light chain differentiates primary psychiatric disorders from rapidly progressive, Alzheimer's disease and frontotemporal disorders in clinical settings. Alzheimer's and Dementia, 2022, 18, 2218-2233.	0.8	24
43	Creutzfeldt-Jakob disease cluster in an Australian rural city. Annals of Neurology, 2002, 52, 115-118.	5.3	23
44	Copper, endoproteolytic processing of the prion protein and cell signalling. Frontiers in Bioscience - Landmark, 2010, 15, 1086.	3.0	23
45	Concordance Between Cerebrospinal Fluid Biomarkers with Alzheimerâ€™s Disease Pathology Between Three Independent Assay Platforms. Journal of Alzheimer's Disease, 2017, 61, 169-183.	2.6	21
46	Secreted cellular prion protein binds doxorubicin and correlates with anthracycline resistance in breast cancer. JCI Insight, 2019, 5, .	5.0	21
47	Prion protein cleavage fragments regulate adult neural stem cell quiescence through redox modulation of mitochondrial fission and SOD2 expression. Cellular and Molecular Life Sciences, 2018, 75, 3231-3249.	5.4	20
48	Iatrogenic and zoonotic Creutzfeldtâ€“Jakob disease: the Australian perspective. Medical Journal of Australia, 1996, 164, 598-602.	1.7	19
49	Unusual Clinical and Molecular-Pathological Profile of Gerstmann-StrÃussler-Scheinker Disease Associated With a NovelPRNPMutation (V176G). JAMA Neurology, 2013, 70, 1180.	9.0	19
50	The Prion Protein N1 and N2 Cleavage Fragments Bind to Phosphatidylserine and Phosphatidic Acid; Relevance to Stress-Protection Responses. PLoS ONE, 2015, 10, e0134680.	2.5	18
51	Cerebrospinal fluid neurofilament light chain is elevated in Niemannâ€“Pick type C compared to psychiatric disorders and healthy controls and may be a marker of treatment response. Australian and New Zealand Journal of Psychiatry, 2020, 54, 648-649.	2.3	18
52	Human Prion Diseases: Cause, Clinical and Diagnostic Aspects. , 2004, 11, 72-97.		17
53	Diagnostic accuracy of cerebrospinal fluid biomarkers in genetic prion diseases. Brain, 2022, 145, 700-712.	7.6	16
54	Therapeutic interventions ameliorating prion disease. Expert Review of Anti-Infective Therapy, 2009, 7, 83-105.	4.4	15

#	Article	IF	Citations
55	Prion subcellular fractionation reveals infectivity spectrum, with a high titre-low PrPres level disparity. Molecular Neurodegeneration, 2012, 7, 18.	10.8	15
56	Alzheimerâ€™s disease cerebrospinal fluid biomarkers are not influenced by gravity drip or aspiration extraction methodology. Alzheimer's Research and Therapy, 2015, 7, 71.	6.2	14
57	A 2-Substituted 8-Hydroxyquinoline Stimulates Neural Stem Cell Proliferation by Modulating ROS Signalling. Cell Biochemistry and Biophysics, 2016, 74, 297-306.	1.8	14
58	Cytosolic caspases mediate mislocalised SOD2 depletion in an in vitro model of chronic prion infection. DMM Disease Models and Mechanisms, 2013, 6, 952-63.	2.4	13
59	The prion protein regulates beta-amyloid-mediated self-renewal of neural stem cells in vitro. Stem Cell Research and Therapy, 2015, 6, 60.	5.5	13
60	Early existence and biochemical evolution characterise acutely synaptotoxic PrPSc. PLoS Pathogens, 2019, 15, e1007712.	4.7	13
61	The cellular prion protein beyond prion diseases. Swiss Medical Weekly, 2020, 150, w20222.	1.6	13
62	Glycosaminoglycan sulfation determines the biochemical properties of prion protein aggregates. Glycobiology, 2015, 25, 745-755.	2.5	12
63	Endoproteolytic cleavage as a molecular switch regulating and diversifying prion protein function. Neural Regeneration Research, 2016, 11, 238.	3.0	12
64	Microwave Synthesis of Prion Protein Fragments up to 111 Amino Acids in Length Generates Biologically Active Peptides. International Journal of Peptide Research and Therapeutics, 2012, 18, 21-29.	1.9	11
65	C-terminal peptides modelling constitutive PrPC processing demonstrate ameliorated toxicity predisposition consequent to Î±-cleavage. Biochemical Journal, 2014, 459, 103-115.	3.7	11
66	Simplified Murine 3D Neuronal Cultures for Investigating Neuronal Activity and Neurodegeneration. Cell Biochemistry and Biophysics, 2017, 75, 3-13.	1.8	11
67	Prion acute synaptotoxicity is largely driven by protease-resistant PrPSc species. PLoS Pathogens, 2018, 14, e1007214.	4.7	11
68	The synthesis and spectroscopic analysis of the neurotoxic prion peptide 106â€“126: Comparative use of manual Boc and Fmoc chemistry. International Journal of Peptide Research and Therapeutics, 1999, 6, 129-134.	0.1	10
69	Ethical Issues in the Treatment of Late-Stage Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 68, 1311-1316.	2.6	10
70	The Prion Protein Preference of Sporadic Creutzfeldt-Jakob Disease Subtypes. Journal of Biological Chemistry, 2012, 287, 36465-36472.	3.4	9
71	Antioxidant and Metal Chelation-Based Therapies in the Treatment of Prion Disease. Antioxidants, 2014, 3, 288-308.	5.1	9
72	Prion Diseases. Advances in Neurobiology, 2017, 15, 335-364.	1.8	9

#	Article	IF	Citations
73	CSF Tau supplements 14-3-3 protein detection for sporadic Creutzfeldtâ€“Jakob disease diagnosis while transitioning to next generation diagnostics. Journal of Clinical Neuroscience, 2018, 50, 292-293.	1.5	9
74	LGI1 antibody encephalopathy overlapping with sporadic Creutzfeldt-Jakob disease. Neurology: Neuroimmunology and NeuroInflammation, 2016, 3, e248.	6.0	8
75	Acute Neurotoxicity Models of Prion Disease. ACS Chemical Neuroscience, 2018, 9, 431-445.	3.5	8
76	In vivo prion models and the disconnection between transmissibility and neurotoxicity. Ageing Research Reviews, 2017, 36, 156-164.	10.9	7
77	Creutzfeldt-Jakob disease surveillance in Australia: update to 31 December 2018. Communicable Diseases Intelligence (2018), 2019, 43, .	0.7	7
78	Decreased cerebrospinal fluid neuronal pentraxin receptor is associated with PET-AÎ² load and cerebrospinal fluid AÎ² in a pilot study of Alzheimerâ€™s disease. Neuroscience Letters, 2020, 731, 135078.	2.1	6
79	Amyloid-Î² (AÎ²)-Related Cerebral Amyloid Angiopathy Causing Lobar Hemorrhage Decades After Childhood Neurosurgery. Stroke, 2022, 53, .	2.0	6
80	No evidence for prion protein gene locus multiplication in Creutzfeldt-Jakob disease. Neuroscience Letters, 2010, 472, 16-18.	2.1	5
81	â€œTo Treat or not To Treatâ€¦ Informing the Decision for Disease-Modifying Therapy in Late-Stage Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 68, 1321-1323.	2.6	5
82	Insulin resistance, cognition and Alzheimer's disease biomarkers: Evidence that CSF AÎ²42 moderates the association between insulin resistance and increased CSF tau levels. Neurobiology of Aging, 2022, 114, 38-48.	3.1	5
83	Immunotherapeutic approaches in prion disease: progress, challenges and potential directions. Therapeutic Delivery, 2013, 4, 615-628.	2.2	4
84	Oxidation of Iron under Physiologically Relevant Conditions in Biological Fluids from Healthy and Alzheimerâ€™s Disease Subjects. ACS Chemical Neuroscience, 2017, 8, 731-736.	3.5	3
85	Cross-Linking Cellular Prion Protein Induces Neuronal Type 2-Like Hypersensitivity. Frontiers in Immunology, 2021, 12, 639008.	4.8	3
86	Updated Creutzfeldtâ€“Jakob disease infection control guidelines: sifting facts from fiction. Medical Journal of Australia, 2013, 198, 245-246.	1.7	2
87	Intra-cerebral haemorrhage but not neurodegenerative disease appears over-represented in deaths of Australian cadaveric pituitary hormone recipients. Journal of Clinical Neuroscience, 2020, 81, 78-82.	1.5	2
88	Development of a neuroprotective antioxidant by a mix-and-match strategy. Oxidants and Antioxidants in Medical Science, 2013, 2, 255.	0.2	2
89	Treatment of microglia with Anti-PrP monoclonal antibodies induces neuronal apoptosis in vitro. Heliyon, 2021, 7, e08644.	3.2	2
90	Updated Creutzfeldtâ€“Jakob disease infection control guidelines: sifting facts from fiction. Medical Journal of Australia, 2013, 199, 535-536.	1.7	1

#	Article	IF	Citations
91	PrPSc Oligomerization Appears Dynamic, Quickly Engendering Inherent M1000 Acute Synaptotoxicity. Biophysical Journal, 2020, 119, 128-141.	0.5	1
92	Creutzfeldt-Jakob disease surveillance in Australia: update to 31 December 2020. Communicable Diseases Intelligence (2018), 2021, 45, .	0.7	1
93	Creutzfeldt-Jakob disease surveillance in Australia: update to December 2014. Communicable Diseases Intelligence, 2016, 40, E207-15.	0.5	1
94	Cerebrospinal fluid Alzheimer disease biomarkers for assessing cognitive and neuropsychiatric symptoms: Expanding the â€˜toolkitâ€™ in the psychiatristâ€™s diagnostic armamentarium. Australian and New Zealand Journal of Psychiatry, 2022, 56, 865-866.	2.3	1
95	Cerebrospinal Fluid Neurofilament Light Predicts Risk of Dementia Onset in Cognitively Healthy Individuals and Rate of Cognitive Decline in Mild Cognitive Impairment: A Prospective Longitudinal Study. Biomedicines, 2022, 10, 1045.	3.2	1
96	Title is missing!. International Journal of Peptide Research and Therapeutics, 1999, 6, 129-134.	0.1	0
97	Iatrogenic Creutzfeldtâ€“Jakob disease in Australia: time to amend infection control measures for pituitary hormone recipients?. Medical Journal of Australia, 2011, 194, 214-215.	1.7	0
98	P3-077: CEREBROSPINAL FLUID BIOMARKERS ARE NOT INFLUENCED BY GRAVITY DRIP OR ASPIRATION EXTRACTION METHODOLOGY. , 2014, 10, P654-P655.		0
99	The Three Glycotypes in the London Classification System of Sporadic Creutzfeldt-Jakob Disease Differ in Disease Duration. Molecular Neurobiology, 2021, 58, 3983-3991.	4.0	0
100	Core Alzheimerâ€™s disease cerebrospinal fluid biomarker assays are not affected by aspiration or gravity drip extraction methods. Alzheimer's Research and Therapy, 2021, 13, 79.	6.2	0
101	Creutzfeldt-Jakob disease surveillance in Australia: update to December 2016. Communicable Diseases Intelligence (2018), 2018, 42, .	0.7	0
102	Creutzfeldtâ€“Jakob disease surveillance in Australia: update to December 2017. Communicable Diseases Intelligence (2018), 2019, 43, .	0.7	0